

Diode Array Spectrometer
Statement of Work
RFQ-RT-03-00303

- (1) The unit must be a Multi-spectral diode array full spectrum spectrophotometer for continuous monitoring of chlorine and chlorine dioxide gasses. As well as other chlorine bound products.
- (2) The unit must measure both single and multi-component gaseous mixtures. The chlorine gas will typically be at concentrations of 10 parts per million or less. The chlorine dioxide gas measurement level will be generally around 1 part per million. However, higher levels may be encountered, up to the half percent level. Therefore, a device capable of measuring a higher level is necessary.
- (3) The unit must be capable of plus or minus 1% accuracy, particularly at low levels.
- (4) The unit must have a systems computer capable of operating within the Microsoft Windows environment, and includes software data analysis. Operational software shall acquire data and calculate the result, with a visual display of strip chart.
- (5) The instrument must have a RS-232 connection output.
- (6) The unit must have the ability to handle gas mixture with interfering spectral features.
- (7) The unit must be delivered fob destination, Research Triangle park, NC, no later than 60 days after receipt of order.